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TAGS: SENV/UR

SUBJECT: US-USSR ENVIRONMENTAL AGREEMENT: PROJECT 02.02-13,
AQUATIC ECOSYSTEMS

1. PLEASE PASS FOLLOWING TO BUTORIN FROM SWAIN WITH COPY TO
KAZAKOV OF HYDROMET.

2. JANUARY 13, 1978

DR. I. V. BUTORIN

DIRECTOR, INSTITUTE OF BIOLOGY OF INLAND WATERS

USSR ACADEMY OF SCIENCES

NEKOUZOKIY RAYON

YAROSLAVSKAYA OBLAST

P/O BOROK 152742

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DEAR DR. BUTORIN:

THANK YOU FOR THE RECENT LETTER IN WHICH YOU DISCUSSED YOUR
TRIP TO THE UNITED STATES. I AM DELIGHTED THAT YOU FOUND
THE TRIP NOT ONLY INTERESTING, BUT REWARDING AND INFORMATIVE.

DR. B. THOMAS JOHNSON HAS JUST INFORMED ME THAT, IF YOU AND

DR. ROMANENKO CONCUR, HE WILL PRESENT A JOINTLY-AUTHORED PAPER ON THE WORK WHICH THEY DID IN BOROK, AT THE AMERICAN

SOCIETY OF MICROBIOLOGY (ASM) MEETING IN MAY 1978. THE FOLLOWING IS THE ABSTRACT WHICH HE SUBMITTED TO THE ASM.

PERTURBATIONS OF MICROBIAL COMMUNITIES BY CHEMICAL CONTAMINANTS, B. THOMAS JOHNSON, COLUMBIA NATIONAL FISHERY RESEARCH LABORATORY, US FISH AND WILDLIFE SERVICE, COLUMBIA, MO AND V. I. ROMANENKO, BIOLOGICAL INSTITUTE OF INLAND WATERS, BOROK, USSR.

THE DEVELOPMENT OF STANDARD, EASILY REPRODUCIBLE METHODS TO RAPIDLY SCREEN PERSISTENT CHEMICALS FOR POTENTIAL PERTURBATIONS OF NUTRIENT CYCLES IN DIFFERENT FRESHWATER ECOSYSTEMS HAS BEEN PART OF A JOINT STUDY BETWEEN THE UNITED STATES AND THE SOVIET UNION. THE INTERACTION OF CHEMICAL CONTAMINANTS AND AQUATIC HETEROTROPHIC BACTERIA WERE CONSIDERED IN XENOBIOTIC DEGRADATION, NUTRIENT MINERALIZATION AND BIOMASS PRODUCTIVITY. THE ¹⁴C-RADIOPIROMETER (WITH SELECTIVE ¹⁴C-LABELING) WAS USED AS A RAPID, EASILY STANDARDIZED TEST TO DETERMINE XENOBIOTIC DEGRADATION IN DIFFERENT ECOSYSTEMS. WE FOUND BY MEASURING ¹⁴CO₂ EVOLUTION THAT DYOX (1-C LABEL), AND DI-2-ETHYLHEXYL-PHTHALATE (DEHP) (CARBONYL LABEL) WERE DEGRADED IN LAKE WATER. KEPONE (UL), SIMAZINE (RL) AND DDT (RL) SHOWED PERSISTENCY UNCLASSIFIED

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WITH NO EVIDENCE OF ¹⁴CO₂ PRODUCTION AFTER 30 DAYS INCUBATION. DEHP SIGNIFICANTLY AFFECTED ¹⁴C-GLUCOSE MINERALIZATION AT WATER CONCENTRATION OF 100 MG/L BY INCREASING CO₂ EVOLUTION AND GLUCOSE INCORPORATION BY 25. USING THE METHOD OF KUSNETSOV AND ROMANENKO (1963), WE FOUND THAT SIMAZINE AT 1 MG/L INCREASED THE DARK INCORPORATION OF CO₂ BY 7 IN HETEROTROPHIC BACTERIA. KEPONE INHIBITED CO₂ FIXATION BY 25 IN A WATER CONCENTRATION OF 1 MG/LITER.

DR. JOHNSON HAS PROMISED THAT THIS PAPER - THE FIRST REPORT OF OUR JOINT EFFORTS UNDER PROJECT 02.02-13 - WILL SHORTLY BE READY FOR TRANSMITTAL TO YOU FOR YOUR COMMENTS.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT ME. I WANT TO TAKE THIS OPPORTUNITY TO WISH YOU A HAPPY AND PROSPEROUS NEW YEAR AND SUCCESS IN FUTURE COOPERATIVE VENTURES.

SINCERELY,

WAYLAND SWAIN CHRISTOPHER

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